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SECOND PAN AMERICAN SCIENTIFIC CONGRESS

PROGRAM *of* SECTION IV

EDUCATION

WASHINGTON

MONDAY, DECEMBER 27, 1915–SATURDAY, JANUARY 8, 1916

[FIRST EDITION]

WASHINGTON
GOVERNMENT PRINTING OFFICE
1915

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Executive Committee.

WILLIAM PHILLIPS, A. B., Third Assistant Secretary of State, Chairman ex officio.

JAMES BROWN SCOTT, LL. D., J. U. D., Secretary, Carnegie Endowment for International Peace, Vice-Chairman.

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GLEN LEVIN SWIGGETT, Ph. D., Assistant Secretary General.

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Section IV.—Education.

Chairman.—P. P. CLAXTON, Commissioner of Education of the United States.
Vice-Chairman.—S. P. CAPEN, Specialist in Higher Education, Bureau of Education, Washington, D. C.
Corresponding Secretary.—GUILLERMO A. SHERWELL.

SUBSECTION 1.—*Elementary Education.*

JOHN H. FINLEY, Commissioner of Education, State of New York, Albany, N. Y., Chairman.
PAUL MONROE, Teachers' College, Columbia University, New York, N. Y.
ERNEST CARROLL MOORE, Department of Education, Harvard University, Cambridge, Mass.
M. P. SHAWKEY, State Superintendent of Schools, Charleston, W. Va.

SUBSECTION 2.—*Secondary Education.*

ELMER E. BROWN, Chancellor, New York University, New York, N. Y., Chairman.
JESSE BUTRICK DAVIS, Principal, Central High School, Grand Rapids, Mich.
ALEXIS F. LANGE, Head of the Department of Education, University of California, Berkeley, Cal.
BRUCE R. PAYNE, President, George Peabody College for Teachers, Nashville, Tenn.

SUBSECTION 3.—*University Education.*

EDMUND JANES JAMES, President, University of Illinois, Urbana, Ill., Chairman.
JOHN GRIER HIBBEN, President, Princeton University, Princeton, N. J.
BENJAMIN IDE WHEELER, President, University of California, Berkeley, Cal.
HARRY BURNS HUTCHINS, President, University of Michigan, Ann Arbor, Mich.
WILLIAM OXLEY THOMPSON, President, Ohio State University, Columbus, Ohio.

SUBSECTION 4.—*Education of Women.*

SARAH LOUISE ARNOLD, Dean, Simmons College, Boston, Mass., Chairman.
MARGARET SCHALLENBERGER, Commissioner of Elementary Education, State Department of Education, Sacramento, Cal.
MARION TALBOTT, Dean, Department of Women, University of Chicago, Chicago, Ill.
MARY E. PARKER, Western Reserve University, Cleveland, Ohio.
SUSAN M. KINGSBURY, Professor, Bryn Mawr College, Pa.

SUBSECTION 5.—*Exchange of Professors and Students.*

NICHOLAS MURRAY BUTLER, President, Columbia University, New York, N. Y., Chairman.
EDWIN A. ALDERMAN, President, University of Virginia, Charlottesville, Va.
GEORGE E. VINCENT, President, University of Minnesota, Minneapolis, Minn.
HENRY SUZZALLO, President, University of Washington, Seattle, Wash.

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SUBSECTION 6.—*Engineering Education.*

ARTHUR A. HAMMERSCHLAG, Director, Carnegie Institute of Technology, Pittsburgh, Pa., Chairman.

FREDERICK A. GOETZ, Dean, School of Mines, Engineering and Chemistry, Columbia University, New York, N. Y.

G. C. ANTHONY, Dean, Engineering School, Tufts College, Mass.

R. M. HUGHES, President, Miami University, Oxford, Ohio.

HERMAN SCHNEIDER, Dean, College of Engineering, University of Cincinnati, Cincinnati, Ohio.

CARL L. MEES, President, Rose Polytechnic Institute, Terre Haute, Ind.

JOHN B. WHITEHEAD, Johns Hopkins University, Baltimore, Md.

SUBSECTION 7.—*Medical Education.*

WILLIAM CLINE BORDEN, Dean, Medical School, George Washington University, Washington, D. C., Chairman.

C. E. MUNROE, George Washington University, Washington, D. C.

PAUL BARTSCH, George Washington University, Washington, D. C.

B. M. RANDOLPH, George Washington University, Washington, D. C.

F. A. HORNADAY, George Washington University, Washington, D. C.

SUBSECTION 8.—*Agricultural Education.*

WINTHROP ELLSWORTH STONE, President, Purdue University, Lafayette, Ind.

ANDREW M. SOULE, President, Georgia Agricultural College, Athens, Ga.

ROBT. J. ALEY, President, University of Maine, Orono, Me.

RAYMOND A. PEARSON, President, Iowa State College of Agriculture, Ames, Iowa.

SUBSECTION 9.—*Industrial Education.*

WILLIAM T. BAWDEN, Specialist in Industrial Education, Washington, D. C., Chairman.

CHARLES A. BENNETT, Bradley Polytechnic Institute, Peoria, Ill.

CHARLES A. PROSSER, Director, Dunwoody Industrial Institute, Minneapolis, Minn.

DAVID SNEDDEN, Commissioner, Massachusetts Board of Education, Boston, Mass.

SUBSECTION 10.—*Commercial Education.*

GLEN LEVIN SWIGGETT, University of Tennessee, Knoxville, Tenn., Chairman.

J. PAUL GOODE, University of Chicago, Chicago, Ill.

FREDERICK G. HICKS, Dean, University of Cincinnati, Cincinnati, Ohio.

JEREMIAH W. JENKS, Director, School of Commerce, New York University, New York, N. Y.

L. C. MARSHALL, Dean, College of Commerce and Administration, University of Chicago, Chicago, Ill.

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SECOND PAN AMERICAN SCIENTIFIC CONGRESS.

Monday Morning, December 27, 1915, 10 o'clock.

MEMORIAL CONTINENTAL HALL, SEVENTEENTH AND D STREETS NW.

OPENING OF CONGRESS.

(The detailed program will be published in a later edition.)

Monday Afternoon, December 27, 1915, 2.30 o'clock.

MEMORIAL CONTINENTAL HALL, SEVENTEENTH AND D STREETS NW.

Opening of Congress (continued from morning session).

Monday Night, December 27, 1915, 9 o'clock.

PAN AMERICAN UNION.

Reception tendered by the Secretary of State and the United States delegation to the members of the Congress and invited guests.

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Tuesday Morning, December 28, 1915, 9.30 o'clock.

PAN AMERICAN UNION.

FIRST GENERAL SESSION OF SECTION IV.—EDUCATION.

DR. P. P. CLAXTON, chairman.

Address by His Excellency SR. DON CARLOS MARIA DE PENA, Minister from Uruguay.

Address by Honorable WILLIAM J. BRYAN.

The Changes Needed in American Secondary Education.

DR. CHARLES W. ELIOT.

Scientific Cooperation Among the Universities of North and South America.

DR. JOHN C. BRANNER.

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Tuesday Afternoon, December 28, 1915, 2.30 o'clock.

PAN AMERICAN UNION.

Joint session of entire Section IV with entire Section IX, with program furnished by subsection of Section IV on Commercial Education and subsection on Commerce of Section IX.

INTRODUCTORY REMARKS:

HON. WILLIAM C. REDFIELD, Secretary of Commerce, Washington, D. C.

HON. ANDREW J. PETERS, Assistant Secretary of the Treasury, Washington, D. C.

MR. JOHN H. FAHEY, President, United States Chamber of Commerce, Boston, Mass.

DR. EDMUND J. JAMES, President, University of Illinois, Urbana, Ill.

GENERAL TOPIC:

Preparation for Trade, Domestic and Foreign.

(*a*) *From the Standpoint of the Business Man.*

J. A. FARRELL, President, National Foreign Trade Council, 64 Stone St., New York, N. Y.

(*b*) *From the Standpoint of the Educator.*

DR. EDWIN F. GAY, Dean, Harvard University, Cambridge, Mass.

JOINT SESSION BETWEEN SUBSECTION VII ON MEDICAL EDUCATION WITH ENTIRE SECTION VIII.

Who is a Medical Practitioner?

HARLAN H. HORNER, M. A., Chief, Division Examination, Department of Education, Albany, N. Y.

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Wednesday Morning, December 29, 1915.

SESSION—SUBSECTION 6:

The Relative Importance of General Training in Engineering Branches to Extreme Specialization.

PROF. WM. H. BURR, Columbia University, New York, N. Y.

The Study of Engineering Education by the Joint Committee of the National Engineering Societies.

PROF. CHARLES R. MANN, Carnegie Foundation for the Advancement of Teaching, 576 Fifth Ave., New York, N. Y.

SESSION—SUBSECTION 7:

Pan American Topic.

DR. DÁMASO RIVAS, University of Pennsylvania, Philadelphia, Pa.

The Premedical Education in Biology.

PAUL BARTSCH, Ph. D., National Museum, Washington, D. C.

Medical Education.

JOHN M. BALDY, M. D., 2219 DeLancey St., Philadelphia, Pa.

Medical Education.

BUCKNER MAGILL RANDOLPH, M. D., Professor of Therapeutics, The Toronto, Washington, D. C.

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Wednesday Morning, December 29, 1915—Continued.

SESSION—SUBSECTION 8:

Agricultural Education in County Schools.

HARRY L. RUSSELL, Dean, University of Wisconsin, Madison, Wis.

Education for the Baccalaureate Degree as Administered in Agricultural Colleges..

DR. ALFRED CHARLES TRUE, Director, Office of Experiment Stations, Department of Agriculture, Washington, D. C.

Graduate Instruction.

HERBERT J. WEBBER, Dean, College of Agriculture, University of California, Berkeley, Cal.

SESSION—SUBSECTION 9:

National, State, and Local Support of Industrial Education.

DAVID SNEDDEN, Commissioner of Education, State Board of Education, Boston, Mass.

The Place of Industrial Education in the System of Public Schools of a Self-Governed People.

EUGENE DAVENPORT, Dean, College of Agriculture, University of Illinois, Urbana, Ill.

Training Girls and Women for Trades and Industries.

MARY SCHENEK WOOLMAN, Chairman, Committee of Women's Works, National Society for the Promotion of Industrial Education, 140 W. 42d St., New York, N. Y.

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PAN AMERICAN UNION.

SESSION—SUBSECTION 10:

Is there a Profession of Business and can we really train for it?

ELLIOT H. GOODWIN, Secretary, U. S. Chamber of Commerce, Washington, D. C.

The Proper Use of Business Experts from the Business World in Class Instruction on Domestic and Foreign Commerce. (Symposium—five-minute talks.)

His Excellency, SR. DON. CARLOS MARIA DE Pena, Minister from Uruguay.

His Excellency, SR. DON JOAQUIN MENDEZ, Minister from Guatemala, Washington, D. C.

W. S. KIES, National City Bank, New York City.

J. J. ARNOLD, President, First National Bank, Chicago, Ill.

ROGER W. BABSON, President, Babson's Statistical Bureau, Wellesley Hills, Mass.

HON. EDWARD N. HURLEY, Member, Federal Trade Commission, Washington, D. C.

E. T. GUNDLACH, Peoples Gas Building, Chicago, Ill.

SR. DON CARLOS MARIA DE PENA, Uruguayan Minister, Washington, D. C.

HON. CHARLES H. SHERRILL, 30 Broad St., New York, N. Y.

R. G. RHETT, Director, U. S. Chamber of Commerce, Charleston, S. C.

HON. CHARLES NAGEL, St. Louis, Mo.

WALLACE D. SIMMONS, 425 Arch St., Philadelphia, Pa.

HON. HENRY D. FLOOD, Ch'man, Foreign Relation Committee, House of Representatives, Washington, D. C.

B. OLNEY HOUGH, Editor, "American Exporter," New York, N. Y.

JAMES BROWN SCOTT, Secretary, Carnegie Endowment for International Peace, 2 Jackson Place, Washington, D. C.

HON. WILBUR J. CARR, Director, Consular Service, Washington, D. C.

HARRY EDWIN BARD, Secretary, Pan American Society for the United States, Mills Building, 15 Broad St., New York, N. Y.

J. F. CROWELL, Chamber of Commerce, 65 Liberty St., New York, N. Y.

JOHN CLAUSEN, Manager, Foreign Department, Crocker National Bank, San Francisco, Cal.

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Wednesday Afternoon, December 29, 1915.

SESSION—SUBSECTION 1:

Between What Ages Should Attendance at Elementary Schools be made Compulsory? How can a Compulsory-Attendance Law for Elementary Education be made Effective?

SR. EDUARDO ROGE, Uruguay.

Physical, Intellectual, and Moral Education.

DR. LIBERATO BITTENCOURT, Rio de Janeiro, Brazil.

How May the School be made an Effective Health Agency?

DR. THOMAS D. WOOD, Columbia University, New York, N. Y.

SESSION—SUBSECTION 3:

Function of Graduate Schools in the Universities of the United States.

DR. WILLIAM HENRY CARPENTER, Columbia University, New York, N. Y.

DR. ALBION W. SMALL, Dean, University of Chicago, Chicago, Ill.

Place and Function of the Independent College in the American University System.

DR. ALEXANDER MEIKELJOHN, President, Amherst College, Amherst, Mass.

DR. JOHN S. NOLLEN, President, Lake Forest College, Lake Forest, Ill.

SESSION—SUBSECTION 6:

Opportunities and Problems Confronting the Engineer in South America.

ELMER L. CORTHELL, 149 Broadway, New York, N. Y.

The Value of Spanish in the Engineering Curricula.

DR. GLEN L. SWIGGETT, Professor of Romance Languages, University of Tennessee, Knoxville, Tenn.

The Possibilities of South American Students in Engineering Schools in the United States.

DEAN F. A. GOETZ, School of Mines, Engineering and Chemistry, Columbia University, New York, N. Y.

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Wednesday Afternoon, December 29, 1915—Continued.

SESSION—SUBSECTION 9:

Cooperation between Public Schools and Organizations of Employers and Employees in Making and Executing Plans for Industrial Education.

ARTHUR WILLIAMS, New York Edison Co., Irving Place and 15th St., New York, N. Y.

Why Should an Industrial Corporation Undertake Educational Work on Behalf of its Employees?

ELMER H. FISH, Supervisor of Educational Department, The Norton Company, Worcester, Mass.

Corporation Schools.

F. C. HENDERSCHOTT, Executive Secretary, National Association of Corporation Schools, Irving Place and 15th St., New York, N. Y.

SESSION—SUBSECTION 10:

Commercial Education.

In Latin America—

EDGAR E. BRANDON, Dean, Miami University, Oxford, Ohio.

In England—

DR. I. L. KANDEL, Carnegie Foundation for the Advancement of Teaching, New York N. Y.

In Germany—

FREDERICK ERNEST FARRINGTON, Associate Professor of Education, Teachers College, Columbia University, New York, N. Y.

Wednesday Night, December 29, 1915, 8.30 to 11 o'clock.

NEW BUILDING OF THE NATIONAL MUSEUM, TENTH AND B STREETS NW.

Reception tendered by the Regents and Secretary of the Smithsonian Institution to the members of the Congress and invited guests.

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Thursday Morning, December 30, 1915.

SESSION—SUBSECTION 1:

Bases for a Public School Law. A book presented by

DR. ABEL J. PEREZ, Inspector Nacional de Instrucción Primaria, Uruguay.

What are the Elements of an Effective Law on Compulsory Attendance?

SR. EMILIO FOURNIÉ, Uruguay.

Should a Single School be the Local Unit of Administration in the District or in a Wider Sphere of Action?

MISS ENRIQUETA COMPTE Y PIQUÉ, Uruguay.

Some Ideas on Fresh Orientation in Education.

ABEL J. PEREZ, Uruguay.

Essentials of an Effective Compulsory Attendance Law.

DR. BEN BLEWETT, Superintendent of Schools, St. Louis, Mo., in collaboration with MR. JOHN B. QUINN, Board of Education, St. Louis, Mo.

Adaption of Course of Study to Child.

DR. J. N. DEAHL, West Virginia University, Morgantown, W. Va.

IN JOINT SESSION—SUBSECTIONS 2 AND 9:

Historical Development of our Secondary School Systems.

DR. ELMER B. BROWN, Chairman, Subsection 2.

Should Public Vocational Training of High School Grade be Organized as a Course or Courses in the Regular High School, or in a Separate School established primarily for Vocational Training?

EDWIN G. COOLEY, Educator, Union League Club, Chicago, Ill.

The Need of Industrial Education in an Industrial Democracy.

PROF. JOHN DEWEY, Columbia University, New York, N. Y.

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Thursday Morning, December 30, 1915—Continued.

SESSION—SUBSECTION 4:

The Education of Women as Measured in Civic and Social Relations.

MISS SOPHONISBA BRECKENRIDGE, Chicago University, Chicago, Ill.

MISS SUSAN M. KINGSBURY, Bryn Mawr College, Bryn Mawr, Pa.

Essential Education for the Average Woman.

MISS IDA M. TARBELL, McClure Publishing Co., New York, N. Y.

The Education of the Nurse for the Home and for the Community.

MISS ADELAIDE M. NUTTING, Teachers' College, New York, N. Y.

SESSION—SUBSECTION 6:

Coordination and Cooperation within and between Technical Schools.

DEAN G. C. ANTHONY, Tufts College, Mass.

Cooperative Work in Industrial Plants in Connection with Engineering Education.

LEWIS E. REBER, Dean, University of Wisconsin, Madison, Wis.

Cooperation between Engineering Societies and Engineering Schools from the Standpoint of the Engineering Society.

FREDERICK R. HUTTON, 257 W. 86th St., New York, N. Y.

From the Standpoint of the Engineering School.

DR. JOHN H. LEETE, Carnegie Institute of Technology, Pittsburgh, Pa.

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SESSION—SUBSECTION 7:

The Development of Entrance Requirements in Medical Education and the Effect of this Development on Attendance in Medical Colleges in the United States.

DANIEL ATKINSON KING STEELE, M. D., Senior Dean, College of Medicine, University of Illinois, Chicago, Ill.

ARTHUR DEAN BEVAN, M. D., Professor of Surgery, Rush Medical College, 122 South Michigan Ave., Chicago, Ill.

The Amount of Knowledge of Biological Science Essential for the Student Entering Medical School.

F. C. WAITE, M. D., Western Reserve University, Cleveland, Ohio.

SESSION—SUBSECTION 8:

Where to Teach Agriculture, and How.

H. J. WATERS, President, Kansas Agricultural College, Manhattan, Kans.

Influence of Extension Work on Southern Farm Practice.

A. M. SOULE, President, State College of Agriculture, Athens, Ga.

GEORGE IRVING CHRISTIE, Purdue University, Lafayette, Ind.

SESSION—SUBSECTION 10:

Modern Business and the New Orientation of Commercial Education.

DR. ISAAC GRINFELD, Director de la Escuela Internacional, Buenos Aires, Argentina.

The Arguments for a Separate or Combined Course of Commercial Study.

ROSWELL C. MCCREA, Dean, The Wharton School, University of Pennsylvania, Philadelphia, Pa.

What Can the Small College Do in Training for Business?

GEORGE W. HOKE, Miami University, Oxford, Ohio.

How to Procure Adequately Prepared Instructors for Colleges and Universities.

JAMES C. EGBERT, Columbia University, New York, N. Y.

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Thursday Afternoon, December 30, 1915.

SESSION—SUBSECTION 2:

The Changes Needed in American Secondary Education.

ELLIS U. GRAFF, Superintendent of Schools, Omaha, Nebr.

Secondary Education in the United States with Special Reference to Public High Schools.

A. V. STORM, Head, Division of Agricultural Education, College of Agriculture, University of Minnesota, Minneapolis, Minn.

SESSION—SUBSECTION 3:

Method of Housing Students in Universities of the United States.

DR. A. W. HARRIS, President, Northwestern University, Evanston, Ill.

Mutual Recognition of Academic Degrees, Including Reciprocity in the Professions of Law, Medicine, Dentistry, and Education.

DR. A. S. DOWNING, New York State Department of Education, Albany, N. Y.

The Duty of State Supported Universities in Regard to Scientific, Historical, Economic, and Political Research, and Publication of Such Research.

A. C. LEUSCHNER, Dean, University of California, Berkeley, Cal.

SESSION—SUBSECTION 6:

What is Engineering Education Contributing Toward Scientific Progress and Invention?

PROF. VLADIMIR KARAPETOFF, Cornell University, Ithaca, N. Y.

WALTER RAUTENSTRAUCH, Columbia University, New York, N. Y.

Extent to which Practicing Engineers May Take Part in Engineering Teaching.

H. V. NORRIS, Wilkesbarre, Pa.

The Significance of Engineering Degrees in the United States.

PROF. WM. T. MAGRUDER, 342 W. Ninth St., Columbus, Ohio.

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SESSION—SUBSECTION 8:

Agricultural Education.

JOSE COMALLONGA Y MENA, Catedrático de la Universidad de la Habana, Cuba.

EUGENE DAVENPORT, Dean, College of Agriculture, University of Illinois, Urbana, Ill.

F. B. MUMFORD, Dean, College of Agriculture, University of Missouri, Columbia, Mo.

SESSION—SUBSECTION 9:

Education in the Trades and Industries.

ELLA FLAGG YOUNG, Superintendent of Public Schools, Chicago, Ill.

L. D. HARVEY, President, Stout Institute, Menominee, Wis.

DR. WM. M. DAVIDSON, Superintendent Public Schools, Pittsburgh, Pa.

SESSION—SUBSECTION 10:

How to Procure Adequately Prepared Instructors.

(*a*) Elementary Schools.
(*b*) Secondary Schools.
(*c*) Colleges.

(*a and b*) *Elementary and Secondary Schools—Foundation, Subjects, Articulation, Correlation, and Methods.*

(*a*) F. G. NICHOLS, Department of Education, State of New York, Rochester, N. Y.

RICHARD E. DODGE, Teachers' College, Columbia University, New York, N. Y.

(*b*) PAUL MUNROE, Teachers' College, Columbia University, New York, N. Y.

DAVID SNEDDEN, Commissioner of Education of Massachusetts, Boston, Mass.

(*c*) *Colleges—Entrance Requirements.*

DAVID KINLEY, Dean, University of Illinois, Urbana, Ill. To discussed by:

W. F. GEPHART, Washington University, St. Louis, Mo.

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Thursday Afternoon, December 30, 1915, 4.30 to 7 o'clock.

CHILEAN EMBASSY, 1013 SIXTEENTH STREET NW.

Reception tendered by the President of the Congress, His Excellency the Ambassador of Chile, Señor don Eduardo Suarez Mujica.

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Friday Morning, December 31, 1915.

SUBSECTION 4.

The Education of Women as Related to the Welfare of Children.

DR. JULIA LATHROP, The Children's Bureau, Washington, D. C.

Well Being of Children as Determined by the Education of Women.

DR. HELEN PUTNAM, Providence, R. I.

What the Library Asks of the Educated Woman. The Library and Education of the People.

MISS LUTIE STEARNS, 47 Prospect Avenue, Milwaukee, Wis.

The College Woman as a Secretary.

MISS MARY SNOW, Intercollegiate Bureau of Appointments, 38 W. 32d St., New York, N. Y.

The Educated Woman in the Country Home.

MISS MARTHA VAN RENNSELAER, State College of Agriculture, Ithaca, N. Y.

JOINT SESSION BETWEEN SUBSECTION 6 AND SECTIONS V AND VII.

Engineering Education in the United States.

PRESIDENT CHARLES S. HOWE, Case School of Applied Science, Cleveland, Ohio.

The Influence of Technology Journals Upon Engineering Education.

THOMAS A. RICKARD, care of "Mining and Scientific Press," 420 Market St., San Francisco, Cal.

JOINT SESSION BETWEEN SUBSECTION 8 AND SECTION III.

Extension Education.

KENYON L. BUTTERFIELD, President, Massachusetts Agricultural College, Amherst, Mass.

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Saturday Morning, January 1, 1916, 10.30 o'clock.

MEMORIAL CONTINENTAL HALL.

GENERAL SESSION OF THE CONGRESS.

Saturday Afternoon, January 1, 1916.

Reception tendered by the president and officers of the Cosmos Club to the members of the Congress, at the Cosmos Club, Madison Place and H Street NW., 3 to 6 o'clock.

Saturday Night, January 1, 1916, 9 o'clock.

PAN AMERICAN UNION.

Reception tendered by the Governing Board of the Pan American Union to the members of the Congress and invited guests at the Pan American Union.

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Monday Morning, January 3, 1916.

JOINT SESSION BETWEEN SUBSECTIONS 1, 2, AND 3:

Education of the City Child.

The Problem of Primary Education in Latin America.

DR. GUILLERMO A. SHERWELL, former Head of the Grammar Schools in the Department of Public Instruction and Fine Arts, Mexico.

What is the most Efficient Way to Prepare Teachers for the Elementary Schools? Age and Other Conditions Under Which a Pupil Should Study the First Grade in Elementary Education in Order not to Retard His Physical Development.

ESTIMULOS (A Poem).

Three papers by DR. MARIANO PEREIRA NUÑEZ, Uruguay.

DR. ERNEST CARROLL MOORE, Harvard University, Cambridge, Mass.

A Presentation of the General Plan and Conception of Secondary Education in the United States.

G. STANLEY HALL, Clark University, Worcester, Mass.

Relation of the American University to Public Service and the Work of Governmental Administration.

DR. FRANK L. MCVEY, President, University North Dakota, Grand Forks, N. Dak.

SESSION—SUBSECTION 6:

Essential Physical Equipment for Engineering Education.

DEAN CHARLES H. BENJAMIN, Purdue University, Lafayette, Ind.

Highway Engineering.

PROF. ARTHUR H. BLANCHARD, Columbia University, New York, N. Y.

Chemical Engineering.

PROF. MILTON G. WHITAKER, Columbia University, New York, N. Y.

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Monday Morning, January 3, 1916—Continued.

SESSION—SUBSECTION 10:

The Teaching of Special Subjects in the Collegiate Course of Study for Business, Domestic and Foreign.

Languages: GLEN LEVIN SWIGGETT, Professor of Romance Languages, University of Tennessee, Knoxville, Tenn.

Geography: PROF. J. PAUL GOODE, University of Chicago, Chicago, Ill.

History: DR. WM. R. SHEPHERD, Columbia University, New York, N. Y.

Mathematics: EVERETT LORD, Dean, Boston University, Boston, Mass.

Government: PROF. JAMES REEVES, University of Michigan, Ann Arbor, Mich.

Special Courses.

Banking and Finance: DEAN CHARLES LEE RAPER, University of North Carolina, Chapel Hill, N. C.

Business Law: PROF. WARD W. PIERSON, The Wharton School, University of Pennsylvania, Philadelphia, Pa.

Business Ethics and Psychology: PROF. JAMES E. LOUGH, New York University, New York City, N. Y.

Organization and Administration: PROF. ARTHUR E. SWANSON, Northwestern University, Evanston, Ill.

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Monday Afternoon, January 3, 1916.

JOINT SESSION—SUBSECTIONS 3 AND 5.

American Diplomas Abroad.

FELIPE GALLEGOS, Secretario de la Facultad de Cirugia Dental, Costa Rica.

The Status of University Professors in the United States, Discussing the Steady Movement Toward Making University Teaching a Separate Profession, in Law, Medicine, Theology, Sciences, etc.

DR. CLYDE FURST, Carnegie Foundation for the Advancement of Teaching, New York, N. Y.

PROF. A. O. LOVEJOY, Johns Hopkins University, Baltimore, Md.

The Organization and Development of a Plan for the Systematic Exchange of University Students and University Professors between the Several American Republics.

PROF. JOHN BASSETT MOORE, Columbia University, New York City, N. Y.

SESSION—SUBSECTION 10:

Special Schools of Secondary Grades: Raison d'être, Character and Method of Instruction.

Commercial High School: WILLIAM FAIRLEY, Principal, Commercial High School, Brooklyn, N. Y.

Y. M. C. A.: EDWARD L. WERTHEIM, Director, West Side Y. M. C. A., 318 W. 58th St., New York, N. Y.

Business Colleges: G. C. GAINES, President, Eastman Business College, Poughkeepsie, N. Y.

The Teaching of Special Subjects in the Collegiate Course of Study for Business, Domestic and Foreign.

Special Courses.

Statistics: PROF. E. DANA DURAND, University of Minnesota, Minneapolis, Minn.

Accounting: MR. JOHN B. GEIJSBECK, Foster Building, Denver, Colo.

PROF. DONALD F. GRASS, Leland Stanford Junior University, Stanford University, Cal.

Monday Night, January 3, 1916, 8 o'clock.

CONTINENTAL HALL, SEVENTEENTH AND D STREETS NW.

The members of the Congress will be the guests of the American Association for the Advancement of Science.

(The detailed program will be announced in a later edition.)

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Tuesday Morning, January 4, 1916.

SESSION—SUBSECTION 3:

Extra-Mural Services of State and Endowed Universities, Including University Extension.

(*a*) *Humanistic.*

EDWARD K. GRAHAM, President, University of North Carolina, Chapel Hill, N. C.

ELMER E. BROWN, Chancellor, New York University, New York, N. Y.

(*b*) *Governmental.*

HERMAN G. JAMES, Professor, University of Texas, Austin, Tex.

JOHN A. FAIRLIE, Professor, University of Illinois, Urbana, Ill.

SESSION—SUBSECTION 4:

The Education of Women as Measured in Civic and Social Relations, Discussed from the Viewpoint of Rural Conditions.

MISS MARGARET SCHALLENBERGER, Commissioner of Education, Sacramento, Cal.

The Education of Public Health Nurses.

DR. C. E. A. WINSLOW, School of Medicine, Yale University, New Haven, Conn.

SESSION—SUBSECTION 6:

Ceramics and Cement Technology.

PROF. ARTHUR S. WATTS, Lord Hall, Ohio State University, Columbus, Ohio.

Electrical Engineering.

PROF. DUGALL JACKSON, Massachusetts Institute of Technology, Boston, Mass.

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Tuesday Morning, January 4, 1916.

SESSION—SUBSECTION 7:

State Control of Medical Licensure.

AUGUSTUS S. DOWNING, LL.D., Assistant Commissioner for Higher Education, State Department of Education, Albany, N. Y.

What Preparation Should be Required for Admission to Medical Schools?

FRED. C. ZAPFFE, M. D., 3431 Lexington St., Chicago, Ill.

The Development of a Fifth Year in Medical Education.

SAMUEL W. LAMBERT, M. D., 130 W. 35th St., New York, N. Y.

SESSION—SUBSECTION 10:

Special Types of Schools, Colleges, and University Grade.

Tulane University: DEAN NORTON A. ALDRICH, New Orleans, La.

University of Cincinnati: Continuation and Evening Courses—DEAN FREDERICK C. HICKS, Cincinnati, Ohio.

University of Oregon: Problems of the Detached School—DEAN HARRY B. MILLER, Portland, Oreg.

New York University: Two Year Course and Individualization of Training for Business, JEREMIAH W. JENKS, Director, Division of Public Affairs, New York University, New York, N. Y.

The Graduate School of Business:

Ames Tuck School of Administration and Finance, Dartmouth College—DEAN H. S. PERSON, Hanover, N. H.

Harvard Graduate School of Business Administration—DEAN EDWIN F. GAY, Cambridge, Mass.

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Tuesday Afternoon, January 4, 1916.

SESSION—SUBSECTION 10:

Special Courses for Commercial Study.

Statement as to Aim and Achievements Since Establishment.

T. J. FOSTER, President, International Correspondence Schools, Scranton, Pa.

SHERWIN CODY, Director, National Associated Schools of Scientific Business, 189 W. Madison St., Chicago, Ill.

University Extension Work for Men in Business.

PROF. SAMUEL MACCLINTOCK, La Salle Extension University, 2550 Michigan Ave., Chicago, Ill.

Alexander Hamilton Institute.

JOSEPH FRENCH JOHNSON, New York University Washington Square, New York, N. Y.

National Association of Corporation Schools.

DR. LEE GALLOWAY, Alexander Hamilton Institute, 13 Astor Place, New York, N. Y.

Commercial Museum.

DR. W. P. WILSON, Commercial Museum, Philadelphia, Pa.

The National City Bank.

F. C. SCHWEDTMAN, Educational Director, the National City Bank, New York, N. Y.

Bureau of Commercial Economics.

FRANCIS HOLLEY, Director, Bureau of Commercial Economics, Washington, D. C.

Tuesday Evening, January 4, 1916, 9 o'clock.

Reception tendered by the trustees of the Carnegie Institution to the members of the Congress.

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Wednesday Morning, January 5, 1916.

PAN AMERICAN TOPICS.

SUBSECTION 1:

To what extent should elementary education be supported by local taxation, and to what extent by State taxation?

What should be the determining factors in the distribution of support?

MISS JEANNE PUCH and MISS MARGUERITTE GALHARRET, San Salvador.

SUBSECTION 2:

What should be the primary and what the secondary purpose of high-school education? To what extent should courses of study in the high school be determined by the requirements for admission to college, and to what extent by the demands of industrial and civic life?

DR. M. LARREINAGA, Guatemala.

SR. A. M. ZÚÑIGA, León, Nicaragua.

SR. ING. JUAN MONTEVERDE, Uruguay.

SUBSECTION 3:

Should universities and colleges supported by public funds be controlled by independent and autonomous powers, or should they be controlled directly by central State authority?

SESSION—SUBSECTION 3:

Things Which Interest Students in the United States, as Compared with the Interest of Similar Students in Europe and Latin America.

HENRY E. BARD, ESQ., 407 W. 117th St., New York, N. Y.

PROF. JOHN D. FITZGERALD, University of Illinois, Urbana, Ill.

DR. BERNABÉ SALGADO, Honduras.

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SUBSECTION 4:

To what extent is coeducation desirable in elementary schools, high schools, colleges, and universities?

DR. FRANCISCO A. RISQUEZ, Venezuela. (Paper.)

DR. FRANCISCO A. RÍSQUEZ, Secretario del Consejo Nacional de Instrucción, Venezuela.

SR. ABRAHAM ÁLVAREZ S., Nicaragua.

DR. FRANCISCO BUITRAGO DÍAZ, Nicaragua.

SUBSECTION 5:

To what extent is an exchange of students and professors between American Republics desirable? What is the most effective basis for a system of exchange? What plans should be adopted in order to secure mutual recognition of technical and professional degrees by American Republics?

DR. DOMINGO AMUNATEGUI SOLA, Rector of the University of Chile, Santiago, Chile.

SR. SANTIAGO KEY-AYALA, Venezuela.

Plan for Securing a Mutual Recognition of Technical and Professional Degrees Granted by Institutions of the First Rank in the Several American Republics.

SR. RÓMULO E. DURÁN, Honduras.

DR. AUGUSTUS S. DOWNING, care of New York State Building, Panama-Pacific Exposition, San Francisco, Cal.

The desirability of affording reciprocal opportunities to teachers in secondary schools in the United States and the countries of Central and South America.

Opportunities in American industrial establishments for graduates of technical schools of South America.

PROF. LEO S. ROWE, University of Pennsylvania, Philadelphia, Pa.

Discussion.

G. B. WINTON, Vanderbilt University, Nashville, Tenn.

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SUBSECTION 6:

To what extent may college courses in engineering be profitably supplemented by practical work in the shop? To what extent may laboratory work in engineering be replaced through cooperation with industrial plants?

SR. ING. JUAN MONTEVERDE, Uruguay.

DR. ARTHUR A. HAMMERSCHLAG, Director, Carnegie Institute of Technology, Pittsburgh, Pa.

SUBSECTION 7:

What preparation should be required for admission to medical schools? What should be the minimum requirements for graduation? What portion of the faculty of a medical school should be required to give all their time to teaching and investigation? What instruction may best be given physicians engaged in medical practice?

DR. FRANCISCO A. RISQUEZ, Secretario del Consejo Nacional de Instrucción, Venezuela. (Paper.)

SUBSECTION 8:

What preparations should be required for admission to State and National colleges of agriculture? To what extent should the courses of study in the agricultural college be theoretical and general, and to what extent practical and specific? To what extent should the curriculum of any such college be determined by local conditions?

SR. B. H. A. GROTH, Panama.

SUBSECTION 9:

What should be the place of industrial education in the school system of the American Republics? Should it be supported by public taxation? Should it be considered under separate control? How and to what extent may industrial schools cooperate with employers of labor?

SR. JULIO CESAR BOLET, Venezuela.

SR. ALFREDO SAMONATI, Inspector Técnico de Instrucción Primaria, Uruguay.

HAROLD E. EVERLEY, Special Student, Bradley Polytechnic Institute, R. A., Peoria, Ill.

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Wednesday Morning, January 5, 1916—Continued.

SUBSECTION 10:

How can a nation prepare in the most effective manner its young men for a business career that is to be pursued at home or in a foreign country?

(*a*) *In schools that are a part of the public school system.*

(*b*) *In schools of private endowment.*

(*c*) *In special business schools of private ownership.*

Outline a course of study that will best prepare young men to engage in such a business career. Each suggested outline should consider not only the character of the educational system of the country for which the course of study is intended, but the desirability and practicability in a uniform course of business education for all Pan American countries.

DR. ERNESTO NELSON, Buenos Aires, Argentina.

SANTIAGO H. FITZ SIMON, Profesor de la Escuela Internacional, Buenos Aires, Argentina.

DR. AGUSTIN T. WHILAR, Lima, Peru.

DR. ANTONIO L. VALVERDE, Profesor Titulos de la Escuela de Comercio, Habana, Cuba.

SR. M. DELLEY, Venezuela.

SR. A. AUBERT, Nicaragua.

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Wednesday Afternoon, January 5, 1916, 2.30 o'clock.

Special drill at Fort Myer given in honor of the members of the Congress from the Latin American countries and invited guests.

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Thursday Morning, January 6, 1916.

Pan American topics left from the previous day.

Thursday Afternoon, January 6, 1916.

Visit to Mount Vernon given in honor of the members of the Congress from the Latin American countries and invited guests.

Thursday Night, January 6, 1916.

The President will address the members of the Congress.

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Friday Morning, January 7, 1916.

NEW WILLARD HOTEL.

Close of sessions of the Section.

The State and Music in the Americas.

SR. NARCISO GARAY, Director of the National Conservatory of Music and Declamation of the Republic of Panama.

The Teaching of Mathematics in the Public Schools.

SR. RODRIGO MUÑOZ ORIBE, Agumensor, Profesor de Matemáticas de la Universidad.

The Educational Value of Endowment for Public Schools.

MR. JOHN A. BRASHEAR, Educational Fund Commission, 1954 Perrysville Ave., Pittsburgh, Pa.

Friday Night, January 7, 1916.

NEW WILLARD HOTEL.

The President will receive the members of the Congress at the White House.

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Saturday Morning, January 8, 1916.

Closing of Congress.

Saturday Evening, January 8, 1916.

Banquet tendered by the Secretary of State and the United States delegation to the members of the Congress from the Latin American countries and invited guests.

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